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RESERVE

# WATER SUPPLY OUTLOOK FOR ARIZONA



PRODUCTS SECTION  
CURRENT SERIAL RECORDS

MAR 30 1976

U. S. DEPARTMENT OF AGRICULTURE  
NATIONAL LAND PLANNING  
OFFICE

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with  
SALT RIVER VALLEY WATER USERS ASSOCIATION  
and  
ARIZONA WATER COMMISSION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
MAR. 15, 1976

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: *SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE*  
SCS PHOTO AZ-5460

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE              | ADDRESS   |
|--------------------|---|
| Alaska             | 204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501                 |
| Arizona            | 6029 Federal Building, Phoenix, Arizona 85025                       |
| Colorado (N. Mex.) | P. O. Box 17107, Denver, Colorado 80217                             |
| Idaho              | Room 345, 304 N. 8th. St., Boise, Idaho 83702                       |
| Montana            | P. O. Box 98, Bozeman, Montana 59715                                |
| Nevada             | P. O. Box 4850, Reno Nevada 89505                                   |
| Oregon             | 1220 S.W. Third Ave., Portland, Oregon 97204                        |
| Utah               | 4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 |
| Washington         | 360 U.S. Court House, Spokane, Washington 99201                     |
| Wyoming            | P. O. Box 2440, Casper, Wyoming 82601                               |

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





# **WATER SUPPLY OUTLOOK FOR ARIZONA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

**R. M. DAVIS**  
ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
WASHINGTON, D. C.

|||||

*Released by*

**THOMAS G. ROCKENBAUGH**  
STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
PHOENIX, ARIZONA

*In Cooperation with*

**WESLEY E. STEINER**  
EXECUTIVE DIRECTOR  
ARIZONA WATER COMMISSION

**KARL F. ABEL**  
PRESIDENT  
SALT RIVER VALLEY WATER  
USERS ASSOCIATION

|||||

*Report prepared by*

**RICHARD W. ENZ, Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
ROOM 6029 FEDERAL BUILDING  
PHOENIX, ARIZONA 85025



*Spring runoff south of Beaver Head*

ARIZONA SUMMARY  
as of  
MARCH 15, 1976

NORMAL WATER SUPPLIES ARE GENERALLY EXPECTED  
IN ARIZONA THIS YEAR; HOWEVER, BELOW AVERAGE  
RUNOFF IS EXPECTED IN EASTERN ARIZONA DURING  
THE MARCH-MAY PERIOD.

## SNOW COVER

Snow cover decreased at the lower elevations, but good increases occurred at some of the higher elevations. Heaviest snowfall continued to fall in the area between Flagstaff and Heber, while the lightest accumulations were observed in eastern Arizona and on the Gila Watershed in New Mexico.

Snow cover varies from 30% below average on the Gila to 55% above average on the Verde.

## PRECIPITATION

Several light to moderate storms occurred at the higher elevations the first half of March. Two to three inches of precipitation was received along the eastern side of the Verde Watershed while most of the Gila Watershed received less than half an inch.

Total precipitation since November 1 ranges from 10% below average on the Gila and Little Colorado Watersheds to 25% above average on the Verde, with the Salt right at average.

## SOIL MOISTURE

Surface soils are drying at the lower elevations, but soil moisture is still good above 7000 feet.

## RESERVOIR STORAGE

Combined storage in the Salt River Project reservoirs is 63% of capacity and slightly above average for this date. San Carlos and Lake Pleasant are still below average, but most other reservoirs in the state are above.

Total storage in the Colorado River reservoirs is very good, with 80% of capacity and 60% above average.

## STREAMFLOW AND WATER SUPPLY

Although several storms crossed Arizona in March, streamflow has dropped significantly due to the cold temperatures and relatively light precipitation at the lower elevations. As a result, most streamflow forecasts have been reduced. A really heavy storm accompanied by warm temperatures, however, could result in a very good runoff, but with only two or three weeks of good storm season left the probability of such an event is rather low.

Water supplies will be adequate this year in areas served by storage facilities, while some shortages are possible in the upper Gila Valley.



# ABOUT MARCH 15, 1976 STREAMFLOW FORECASTS

| STREAMFLOW FORECASTS                  |  | 15, 1976           |                    | THIS YEAR       |                    | PAST RECORD |  |
|---------------------------------------|--|--------------------|--------------------|-----------------|--------------------|-------------|--|
| BASIN, STREAM and/or FORECAST POINT   |  | FORECAST           |                    | FORECAST PERIOD | THOUSAND ACRE FEET |             |  |
|                                       |  | Thousand Acre Feet | Percent of Average |                 | Last Year          | Average †   |  |
| <u>SALT RIVER DRAINAGE</u>            |  |                    |                    |                 |                    |             |  |
| Salt near Roosevelt                   |  | 140                | 62                 | Mar-May         | 404.3              | 224.6       |  |
| "                                     |  | 53                 | 64                 | March           | 132.4              | 81.9        |  |
| Tonto Creek near Roosevelt            |  | 14                 | 61                 | Mar-May         | 42.2               | 23.1        |  |
| "                                     |  | 9                  | 61                 | March           | 15.9               | 14.7        |  |
| Verde River above Horseshoe           |  | 102                | 89                 | Mar-May         | 151.6              | 114.4       |  |
| "                                     |  | 61                 | 101                | March           | 58.4               | 60.4        |  |
| Total Salt River Project Streams      |  | 246                | 68                 | Mar-May         | 598.1              | 362.1       |  |
| <u>GILA RIVER DRAINAGE</u>            |  |                    |                    |                 |                    |             |  |
| Gila River at Calva                   |  | 27                 | 49                 | Mar-May         | 62.9               | 54.9        |  |
| Gila River near Gila                  |  | 29                 | 76                 | Mar-May         | 60.5               | 38.3        |  |
| Gila River near Solomon               |  | 54                 | 60                 | Mar-May         | 129.9              | 90.5        |  |
| "                                     |  | 25                 | 54                 | March           | 54.9               | 46.2        |  |
| Gila River near Virden                |  | 29                 | 63                 | Mar-May         | 66.7               | 46.0        |  |
| Frisco River at Clifton               |  | 27                 | 58                 | Mar-May         | 67.7               | 46.9        |  |
| Frisco River at Glenwood              |  | 11                 | 53                 | Mar-May         | 36.5               | 20.6        |  |
| <u>LITTLE COLORADO RIVER DRAINAGE</u> |  |                    |                    |                 |                    |             |  |
| Little Colo. River above Lyman Dam    |  | 5.0                | 51                 | Mar-June        | 16.4               | 9.8         |  |
| Lake Mary Inflow                      |  | 4.0                | 108                | Mar-May         | 5.8                | 3.7         |  |
| Greer 1/                              |  | 5.6                | 85                 | Mar-June        | ---                | 6.6*        |  |
| <u>GRANITE CREEK DRAINAGE</u>         |  |                    |                    |                 |                    |             |  |
| Granite Creek                         |  | 2.0                | ---                | Mar-May         | ---                | ---         |  |
| Willow Creek                          |  | 0.7                | ---                | Mar-May         | ---                | ---         |  |
| <u>MIMBRES RIVER DRAINAGE</u>         |  |                    |                    |                 |                    |             |  |
| Mimbres River nr. Mimbres             |  | 1.8                | 58                 | Mar-May         | 7.2                | 3.1         |  |
| <u>COLORADO RIVER DRAINAGE</u>        |  |                    |                    |                 |                    |             |  |
| Virgin River near Littlefield         |  | 39                 | 90                 | Apr-June        | 22.5               | 43.2        |  |
| Colorado River - Lake Powell Inflow   |  | 6826               | 99                 | Apr-July        | 10,407             | 6,881       |  |

1/ Corrected for Filler Ditch Diversion. + Based on 15-year period, 1958-72. (\*) Average is for less than 15 years of record.

The Gila River near Solomon is expected to remain above 100 cfs until April 20.



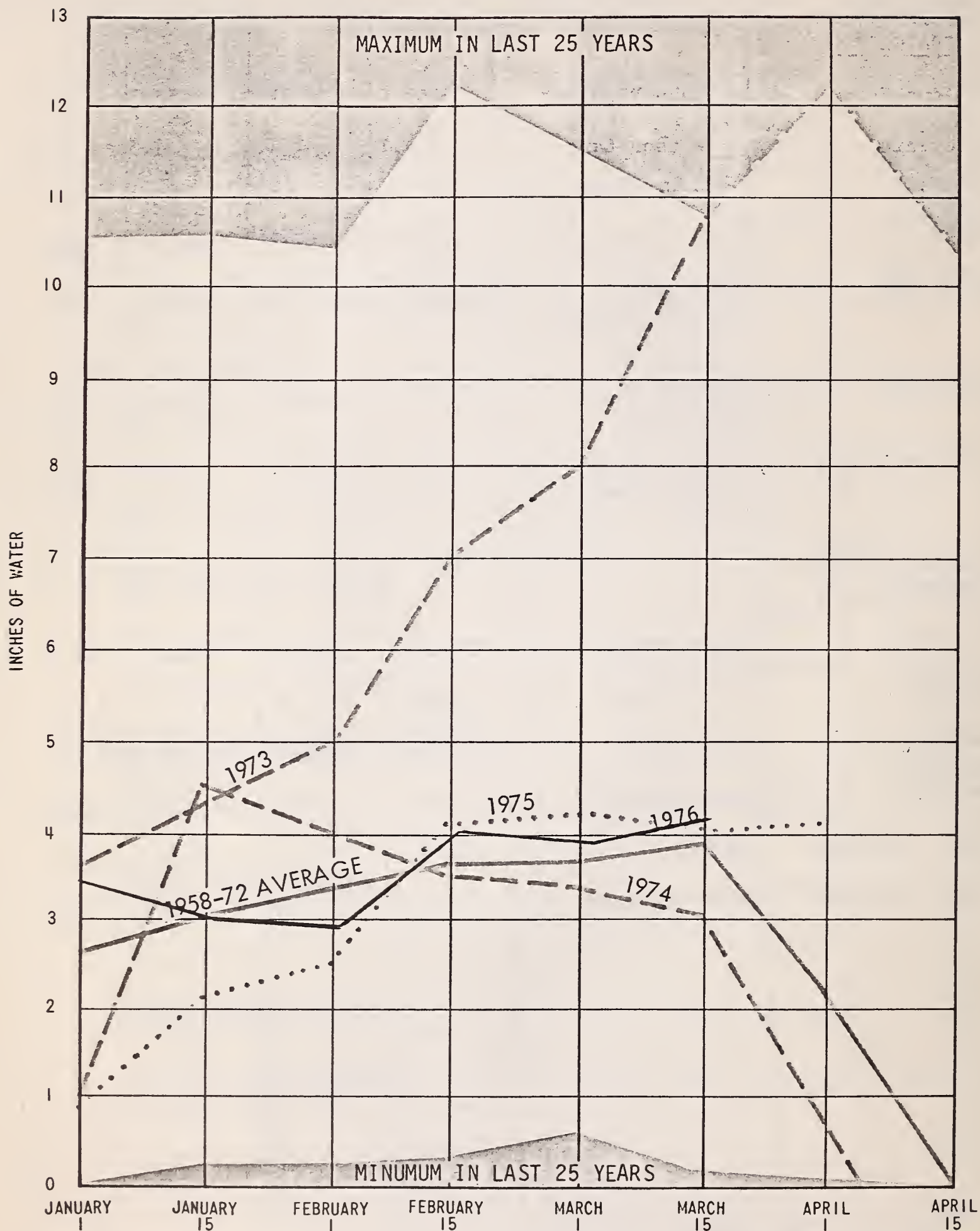
RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

ABOUT MARCH 15, 1976

| BASIN or STREAM                                | RESERVOIR                           | Usable Capacity | Usable Storage |           |          |
|--|-------------------------------------|-----------------|----------------|-----------|----------|
|  |                                     |                 | This Year      | Last Year | Average† |
| <u>GILA RIVER DRAINAGE</u>                     |                                     |                 |                |           |          |
| Agua Fria                                      | Lake Pleasant                       | 157.6           | 51.0           | 55.7      | 61.7     |
| Granite  | Watson Lake                         | 4.7             | 4.5            | 1.5       | 3.4      |
| Granite  | Willow Creek                        | 6.1             | 2.5            | 0.9       | 2.8      |
| Gila   | San Carlos                          | 1,093           | 122.3          | 242.2     | 194.0    |
| Salt (4)                                       | Roosevelt, Apache, Canyon & Saguaro | 1,755           | 1145.8         | 1,094     | 112.4    |
| Verde (2)                                      | Bartlett & Horseshoe                | 317.7           | 159.7          | 55.3      | 151.6    |
| Salt and Verde                                 | 6 Salt River Project Reservoirs     | 2,073           | 1305.5         | 1,149     | 1,275    |
| <u>COLORADO RIVER DRAINAGE</u>                 |                                     |                 |                |           |          |
| Colorado                                       | Lake Havasu                         | 619.4           | 539.5          | 553.0     | 543.2    |
| Colorado                                       | Lake Mohave                         | 1,810           | 1727.6         | 1,663     | 1,712    |
| Colorado                                       | Lake Mead                           | 26,159          | 20,465         | 19,866    | 17,101   |
| Colorado                                       | Lake Powell                         | 25,002          | 19,774         | 17,264    | 7,360*   |
| Little Colorado                                | Lyman                               | 30.6            | 21.2           | 12.5      | 13.8     |
| Little Colorado                                | Show Low Lake                       | 5.1             | 1.5            | 3.9       | 2.0      |
| † Based on 15-year period, 1958-72             |                                     |                 |                |           |          |
| * Average is for less than 15 years of record. |                                     |                 |                |           |          |

+ 1958-1972 period.

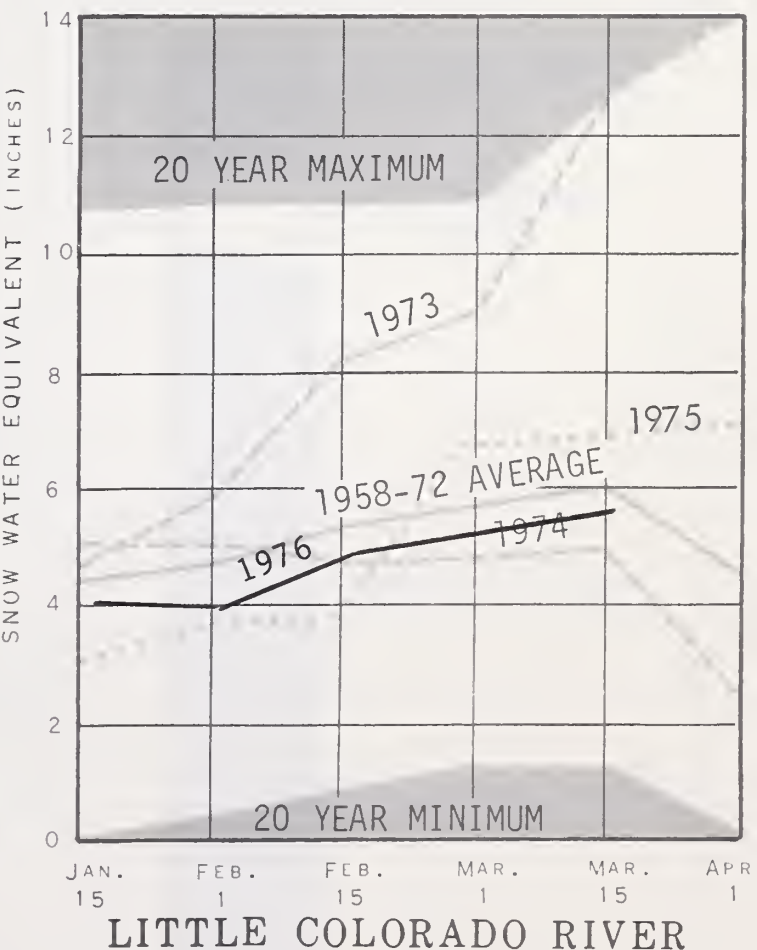
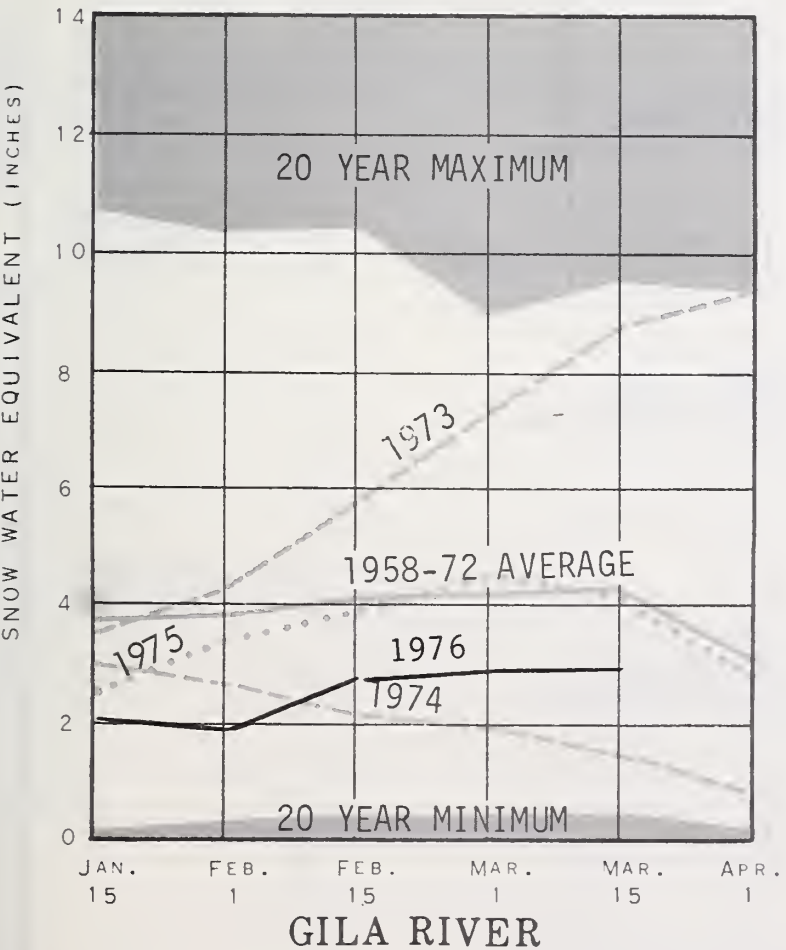
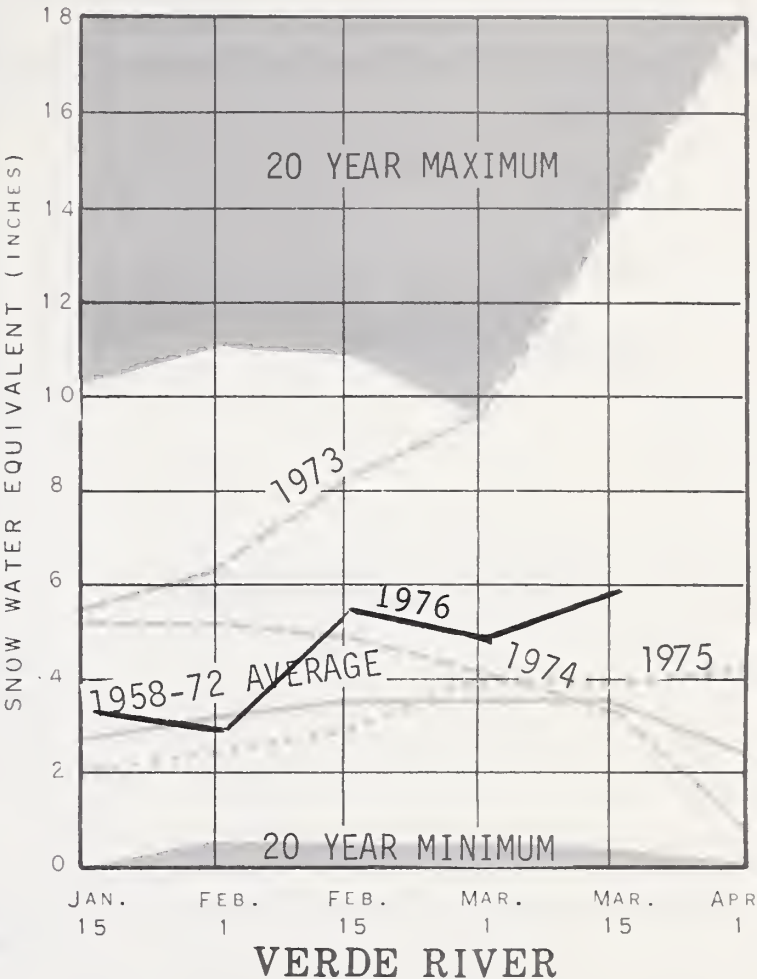
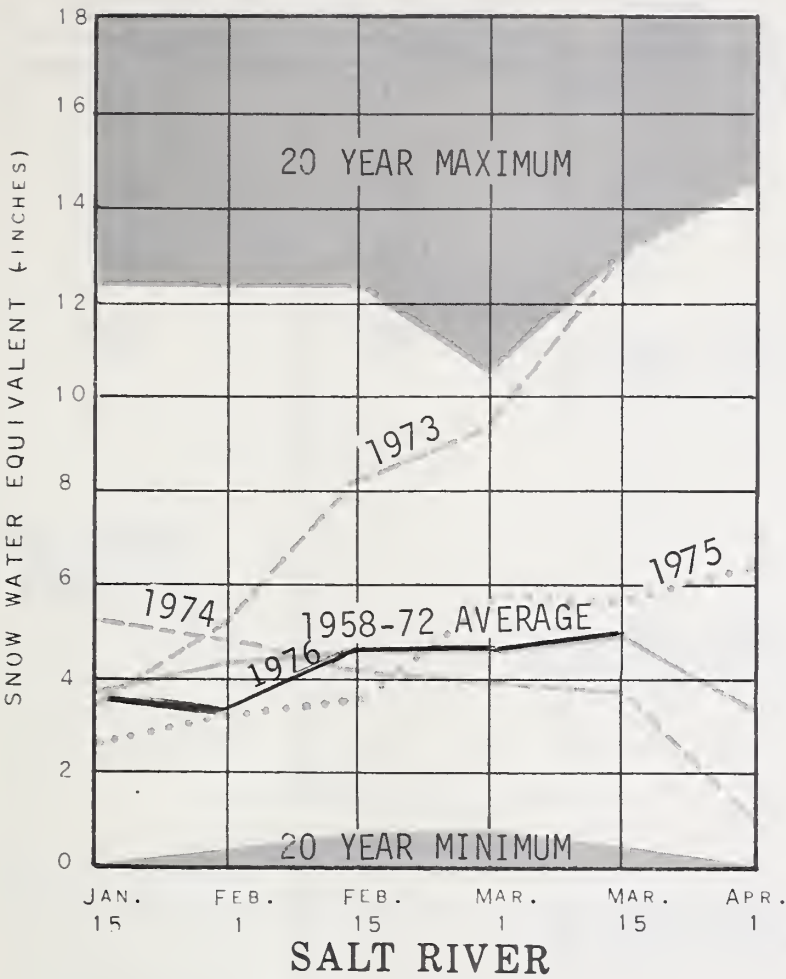
# AVERAGE SNOW COVER ARIZONA 1976



*This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.*

# 1976

## WATERSHED SNOW COVER







# WATER SUPPLY INVENTORY SALT RIVER VALLEY SYSTEM

IN ACRE-FEET  
MARCH 15, 1976

3,000,000

AVERAGE SUPPLY  
ON MARCH 15

ANTICIPATED 1976 SUPPLY \*

2,500,000

2,000,000

1,500,000

1,000,000

500,000

0



Average Spring  
Runoff

Average Summer  
Runoff

Average  
Storage



Forecast Runoff  
(March 15 - May)

Average Summer  
Runoff

Present Storage

Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff





**SNOW** ABOUT MARCH 15, 1976

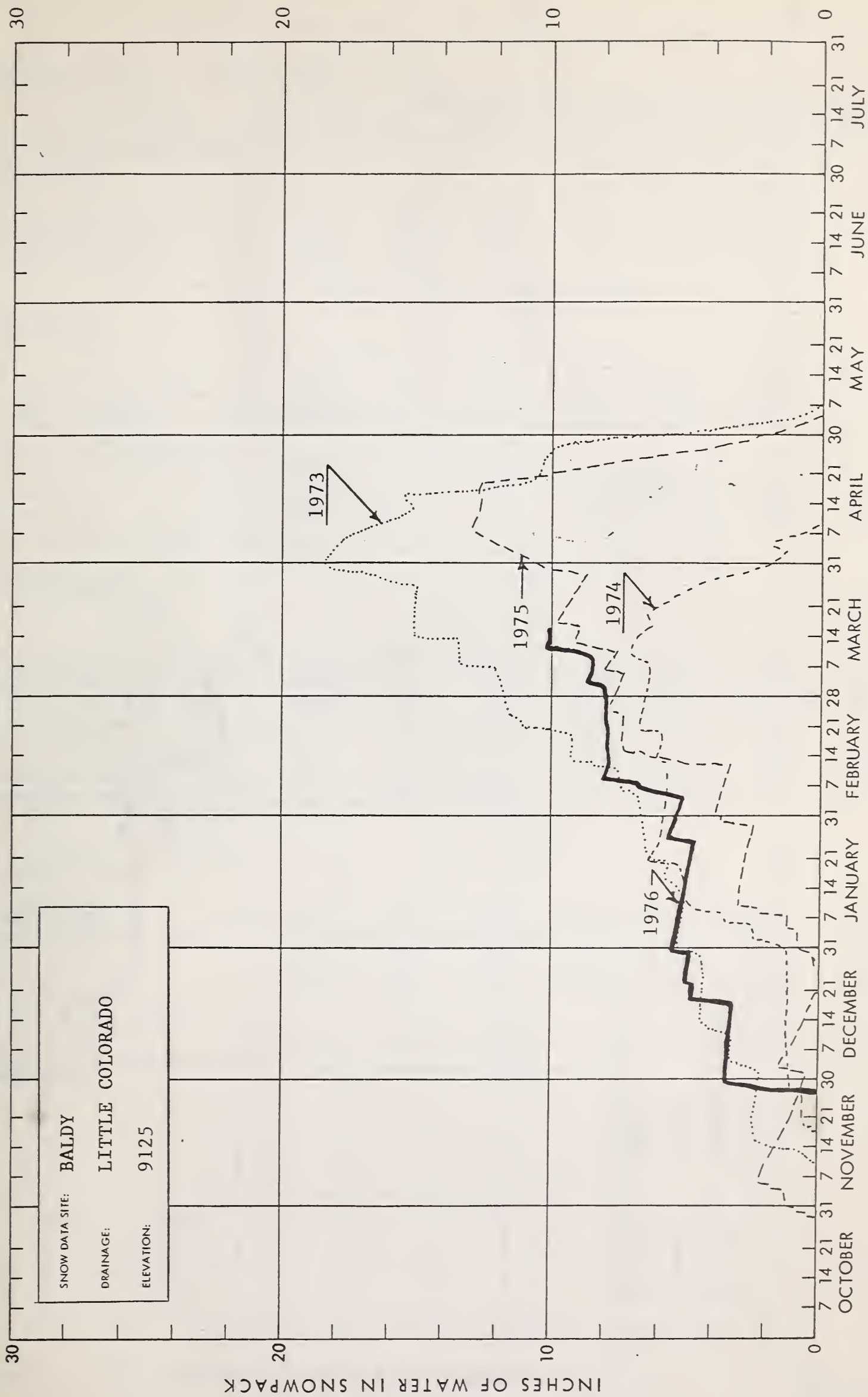
| DRAINAGE BASIN and/or SNOW COURSE  |           | THIS YEAR      |                     |                        | PAST RECORD            |           |
|--|-----------|----------------|---------------------|------------------------|------------------------|-----------|
|  |           | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (inches) |           |
| NAME   | Elevation |                |                     |                        | Last Year              | Average † |
| <b>GILA RIVER</b>  |           |                |                     |                        |                        |           |
| Bear Wallow  | 8100      | 3/14           | 2                   | 0.6                    | 3.0                    | 5.0       |
| Beaver Head  | 8000      | 3/15           | 2                   | 0.6                    | 2.2                    | 2.8       |
| Coronado Trail   | 8000      | 3/15           | T                   | 0.1                    | 2.4                    | 2.2       |
| Emory Pass #1 *  | 7800      | 3/15           | 0                   | 0.0                    | 0.0                    | 0.3**     |
| Emory Pass #2 *  | 7800      | 3/15           | 0                   | 0.0                    | T                      | 0.7**     |
| Frisco Divide  | 8000      | 3/15           | 3                   | 0.8                    | 1.9                    | 1.9       |
| Hannagan Meadows *   | 9090      | 3/15           | 35                  | 10.6                   | 10.5                   | 8.9**     |
| Hummingbird (A)  | 10550     | 3/15           | 40                  | 13.6                   | 20.3                   | 16.3**    |
| McKnight Cabin * (A)   | 9300      | 3/15           | 4                   | 1.2                    | 6.8                    | 2.5**     |
| Mogollon   | 7000      | 3/14           | 0                   | 0.0                    | 0.0                    | 1.2       |
| Nutriosio  | 8500      | 3/15           | 2                   | 0.5                    | 2.3                    | 1.4       |
| Redstone Trail   | 8600      | 3/14           | 21                  | 7.2                    | 8.6                    | 7.4**     |
| Rose Canyon  | 7300      | 3/14           | 1                   | 0.2                    | 3.1                    | 2.0       |
| Silver Creek Divide  | 9000      | 3/14           | 30                  | 9.8                    | 11.5                   | 12.2**    |
| State Line   | 8000      | 3/15           | 0                   | 0.0                    | 1.7                    | 1.8       |
| Whitewater (A)   | 10750     | 3/15           | 54                  | 16.2                   | 25.1                   | 20.3**    |
| <b>VERDE RIVER</b>   |           |                |                     |                        |                        |           |
| Baker Butte  | 7300      | 3/14           | 23                  | 9.7                    | 3.9                    | 5.0**     |
| Baker Butte #2   | 7700      | 3/14           | 54                  | 21.5                   | 12.9                   | ---       |
| Camp Wood  | 5700      | 3/14           | 0                   | 0.0                    | 0.5                    | 0.4       |
| Chalender *  | 7100      | 3/15           | 10                  | 3.8                    | 2.9                    | 2.2       |
| Copper Basin Divide  | 6720      | 3/12           | 2                   | 0.7                    | 1.6                    | 1.2**     |
| Fort Valley  | 7350      | 3/15           | 3                   | 0.7                    | 0.4                    | 2.0       |
| Gaddes Canyon  | 7600      | 3/15           | 25                  | 7.1                    | 4.8                    | 5.3       |
| Happy Jack   | 7630      | 3/15           | 14                  | 5.2                    | 2.7                    | 2.6       |
| Iron Springs *   | 6200      | 3/12           | 1                   | 0.2                    | 0.5                    | 0.4       |
| Mingus Mountain  | 7100      | 3/15           | 0                   | 0.0                    | 1.0                    | 0.7       |
| Mormon Lake *  | 7350      | 3/15           | 21                  | 7.4                    | 3.6                    | 3.4       |
| Mormon Mountain  | 7500      | 3/15           | 27                  | 10.1                   | 5.8                    | 4.7       |
| Newman Park  | 6750      | 3/15           | 2                   | 0.8                    | 2.2                    | 1.5**     |
| Snow Bowl #1   | 10260     | 3/15           | 40                  | 11.9                   | 12.1                   | 9.9**     |
| Snow Bowl #2   | 11000     | 3/15           | 65                  | 18.7                   | 18.8                   | 18.0**    |
| White Horse Lake Jct.  | 7150      | 3/12           | 12                  | 4.3                    | 2.8                    | 3.2**     |
| White Spar   | 6000      | 3/12           | T                   | 0.0                    | 0.9                    | 0.4**     |
| Mormon Mt. Summit #2   | 8470      | 3/16           | 66                  | 19.8                   | ---                    | ---       |
| <b>LOWER COLORADO RIVER</b>  |           |                |                     |                        |                        |           |
| Bill Williams Intermediate   | 8550      | 3/12           | 44                  | 13.7                   | ---                    | 8.0**     |
| Bill Williams Summit   | 8950      | 3/12           | 55                  | 16.6                   | ---                    | 11.1**    |
| Chalender *  | 7100      | 3/15           | 10                  | 3.8                    | 2.9                    | 2.2       |
| Fort Valley  | 7350      | 3/15           | 3                   | 0.7                    | 0.4                    | 2.0       |
| Grand Canyon   | 7500      | 3/15           | 0                   | 0.0                    | 2.2                    | 1.2       |
| Williams Ski Run   | 7720      | 3/12           | 43                  | 13.2                   | 8.2                    | 7.0**     |
| † 1958-72 15-year period. (*) Adjacent drainage. (**) 1958-72 Adjusted Average. (A) Aerial observation: Water content estimated. |           |                |                     |                        |                        |           |

**SNOW** ABOUT MARCH 15, 1976

| DRAINAGE BASIN and/or SNOW COURSE  |           | THIS YEAR      |                     |                        | PAST RECORD            |           |
|--|-----------|----------------|---------------------|------------------------|------------------------|-----------|
|  |           | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (inches) |           |
| NAME   | Elevation |                |                     |                        | Last Year              | Average † |
| <b>SALT RIVER</b>  |           |                |                     |                        |                        |           |
| Baldy *  | 9125      | 3/15           | 29                  | 8.6                    | 9.0                    | 7.5       |
| Beaver Head  | 8000      | 3/15           | 2                   | 0.6                    | 2.2                    | 2.8       |
| Canyon Creek   | 7500      | 3/14           | 13                  | 4.9                    | 3.6                    | 3.1       |
| Canyon Point   | 7600      | 3/14           | 13                  | 4.6                    | 4.0                    | 3.8**     |
| Coronado Trail   | 8000      | 3/15           | T                   | 0.1                    | 2.4                    | 2.2       |
| Forest Dale  | 6430      | 3/15           | 0                   | 0.0                    | 0.0                    | 0.4       |
| Ft. Apache   | 9160      | 3/15           | 27                  | 8.1                    | 9.4                    | 8.0       |
| Hannagan Meadows   | 9090      | 3/15           | 35                  | 10.6                   | 10.5                   | 8.9**     |
| Hawley Lake  | 8300      | 3/15           | 24                  | 8.4                    | 9.8                    | 6.4**     |
| Heber  | 7600      | 3/14           | 11                  | 4.3                    | 3.7                    | 3.3       |
| Maverick Fork  | 9050      | 3/15           | 39                  | 12.9                   | 11.7                   | 8.9       |
| McNary   | 7200      | 3/15           | 3                   | 1.1                    | 1.3                    | 2.0       |
| Milk Ranch   | 7000      | 3/15           | 0                   | 0.0                    | 0.7                    | 0.8       |
| Mt. Ord (A)  | 11000     | N O            | S U R V E Y         |                        | ---                    | 23.8**    |
| Nutriosos *  | 8500      | 3/15           | 2                   | 0.5                    | 2.3                    | 1.4       |
| Promontory Butte   | 7930      | 3/15           | 51                  | 18.0                   | 12.5                   | ---       |
| Smith Cienega (A)  | 9850      | N O            | S U R V E Y         |                        | 24.5                   | 17.7**    |
| Sunrise Summit   | 10600     | 3/12           | 56                  | 15.9                   | 17.2                   | ---       |
| Wilson Lake  | 9000      | 3/12           | 40                  | 10.5                   | 12.2                   | 11.4**    |
| Workman Creek  | 6900      | 3/15           | 14                  | 5.6                    | 4.7                    | 4.9       |
| <b>LITTLE COLORADO RIVER</b>   |           |                |                     |                        |                        |           |
| Baldy  | 9125      | 3/15           | 29                  | 8.6                    | 9.0                    | 7.5       |
| Canyon Creek   | 7500      | 3/14           | 13                  | 4.9                    | 3.6                    | 3.1       |
| Canyon Point   | 7600      | 3/14           | 13                  | 4.6                    | 4.0                    | 3.8**     |
| Cheese Springs   | 8600      | 3/12           | 24                  | 6.0                    | 8.2                    | 8.7**     |
| Forest Dale  | 6430      | 3/15           | 0                   | 0.0                    | 0.0                    | 0.4       |
| Ft. Apache   | 9160      | 3/15           | 27                  | 8.1                    | 9.4                    | 8.0       |
| Fort Valley  | 7350      | 3/15           | 3                   | 0.7                    | 0.4                    | 2.0       |
| Happy Jack *   | 7630      | 3/15           | 14                  | 5.2                    | 2.7                    | 2.6       |
| Heber  | 7600      | 3/14           | 11                  | 4.3                    | 3.7                    | 3.3       |
| Lake Mary  | 6970      | 3/15           | 16                  | 6.9                    | ---                    | ---       |
| McNary   | 7200      | 3/15           | 3                   | 1.1                    | 1.3                    | 2.0       |
| Mormon Lake  | 7350      | 3/15           | 21                  | 7.4                    | 3.6                    | 3.4       |
| Mormon Mountain  | 7500      | 3/15           | 27                  | 10.1                   | 5.8                    | 4.7       |
| Nutriosos *  | 8500      | 3/15           | 2                   | 0.5                    | 2.3                    | 1.4       |
| Promontory Butte   | 7930      | 3/15           | 51                  | 18.0                   | 12.5                   | ---       |
| Snow Bowl #1   | 10260     | 3/15           | 40                  | 11.9                   | 12.1                   | 9.9**     |
| Snow Bowl #2   | 11000     | 3/15           | 65                  | 18.7                   | 18.8                   | 18.0**    |
| Wilson Lake  | 9000      | 3/12           | 40                  | 10.5                   | 12.2                   | 11.4**    |
| Inner Basin #1   | 10100     | 3/16           | 62                  | 19.3                   | ---                    | ---       |
| Inner Basin #2   | 9750      | 3/16           | 48                  | 13.6                   | ---                    | ---       |
| Mormon Mt. Summit #2   | 8470      | 3/15           | 66                  | 19.8                   | ---                    | ---       |
| † 1958-72 15-year period. (*) Adjacent drainage. (**) 1958-72 Adjusted Average. (A) Aerial observation: Water content estimated. |           |                |                     |                        |                        |           |

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SNOW PILLOW DATA

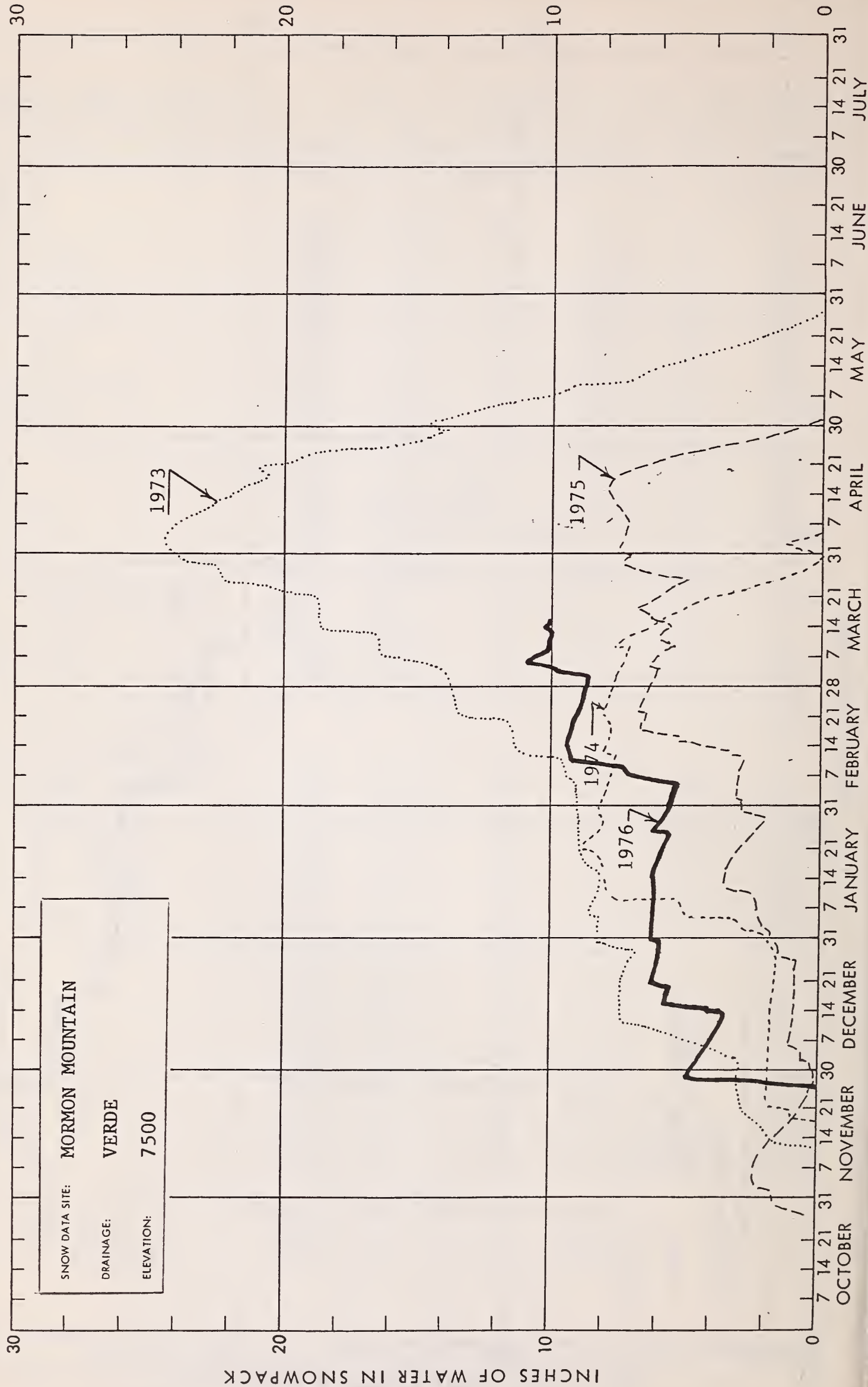


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SNOW PILLOW DATA

1976



SNOW DATA SITE: MORMON MOUNTAIN

DRAINAGE: VERDE

ELEVATION: 7500

## PRECIPITATION (Inches)

ABOUT MARCH 15, 1976

| DRAINAGE BASIN and<br>PRECIPITATION GAGE LOCATION                                     | ELEVATION | CURRENT INFORMATION |                          |           | FROM APPROX. NOV. 1 TO DATE |           |                       |
|---|-----------|---------------------|--------------------------|-----------|-----------------------------|-----------|-----------------------|
|   |           | Date of<br>Reading  | Month's<br>Precipitation | Average † | This Year                   | Average † | Percent of<br>Average |
| <u>GILA RIVER</u>   |           |                     |                          |           |                             |           |                       |
| Silver Creek Divide   | 9000      | 3/14                | 1.20                     | 1.20*     | 11.35                       | 13.02*    | 87                    |
| Hannagan Meadows **   | 9030      | 3/15                | 1.90                     | 1.10      | 11.00                       | 11.69     | 94                    |
| Frisco Divide **  | 8000      | 3/15                | .95                      | ---       | 6.54                        | ---       | ---                   |
| <u>SALT RIVER</u>   |           |                     |                          |           |                             |           |                       |
| Canyon Point  | 7600      | 3/14                | 2.77                     | 1.83*     | 18.08                       | 15.33*    | 118                   |
| Hannagan Meadows **   | 9030      | 3/15                | 1.90                     | 1.10      | 11.00                       | 11.69     | 94                    |
| Little Wildcat<br>(Heber Snow Course)   | 7600      | 3/14                | 2.56                     | 1.48      | 16.98                       | 12.98     | 131                   |
| Maverick Fork   | 9050      | 3/15                | 1.90                     | 1.12      | 12.93                       | 11.14     | 116                   |
| Workman Creek **  | 6970      | 3/15                | 1.95                     | 1.50      | 18.02                       | 15.78     | 114                   |
| Wilson Lake   | 9100      | 3/12                | 1.70                     | 1.25*     | 11.29                       | 11.74*    | 96                    |
| <u>VERDE RIVER</u>  |           |                     |                          |           |                             |           |                       |
| Baker Butte   | 7300      | 3/14                | 2.87                     | 1.68*     | 19.09                       | 15.63*    | 122                   |
| Copper Basin Divide   | 6720      | 3/15                | 1.60                     | 1.21*     | 14.05                       | 10.30*    | 136                   |
| Fort Valley **  | 7350      | 3/15                | 1.66                     | 1.03      | 8.61                        | 8.05      | 106                   |
| Happy Jack **   | 7480      | 3/15                | 2.63                     | 1.13      | 12.89                       | 10.24     | 126                   |
| Mingus Mountain   | 7660      | 3/15                | 1.75                     | 1.06      | 12.02                       | 8.93      | 135                   |
| Mormon Mountain   | 7500      | 3/15                | 3.50                     | 1.51*     | 20.14                       | 14.66*    | 137                   |
| White Horse Lake Jct.**   | 7150      | 3/12                | 2.00                     | ---       | 14.74                       | ---       | ---                   |
| <u>LITTLE COLORADO</u>  |           |                     |                          |           |                             |           |                       |
| Inner Basin #1  | 9830      | 3/16                | 3.20                     | 1.50      | 11.55                       | 14.34     | 81                    |
| Inner Basin #2  | 10050     | 3/16                | 4.00                     | 1.74*     | 14.35                       | 16.41*    | 87                    |
| Greer Lakes   | 8500      | 3/15                | .50                      | .58       | 5.25                        | 6.55      | 80                    |
| Little Wildcat<br>(Heber Snow Course)   | 7600      | 3/14                | 2.56                     | 1.48      | 16.98                       | 12.98     | 131                   |
| Sheep Crossing<br>(Baldy Snow Course)   | 9125      | 3/15                | 1.62                     | 1.11      | 10.75                       | 10.78     | 100                   |
| † 1958-72 Average<br>* Adjusted Average<br>** Data Supplied by<br>U.S. Forest Service |           |                     |                          |           |                             |           |                       |

PRECIPITATION AT SELECTED ARIZONA STATIONS 1/

| STATION               | Precipitation (Inches) |                                 |
|-----------------------|------------------------|---------------------------------|
|                       | MONTH:<br>FEBRUARY     | NORMAL FOR<br>MONTH OF FEBRUARY |
| Alpine                | 2.77                   | .96                             |
| Crown King            | 11.57                  | 2.75                            |
| Douglas               | .67                    | .58                             |
| Flagstaff WSO*        | 5.93                   | 1.47                            |
| Grand Canyon          | 1.94                   | 1.28                            |
| Heber                 | 2.77                   | .94                             |
| McNary                | 2.04                   | 2.18                            |
| Payson Ranger Station | 5.76                   | 1.43                            |
| Phoenix WSFO**        | .47                    | .60                             |
| Pleasant Valley       | 4.18                   | 1.94                            |
| Prescott (City)       | 4.43                   | 1.36                            |
| Safford               | .82                    | .41                             |
| Show Low              | 2.34                   | .96                             |
| Sierra Ancha          | 5.59                   | 2.50                            |
| Springerville         | .26                    | .53                             |
| Tonto Fish Hatchery   | 6.84                   | 2.43                            |
| Tucson WSO*           | .53                    | .70                             |
| Williams              | 5.27                   | 1.57                            |
| Winslow WSO*          | .45                    | .38                             |
| Yuma WSO*             | 1.20                   | .27                             |

1/ Data furnished by the Laboratory of Climatology, ASU, Tempe,  
 Arizona and National Weather Service, Phoenix, Arizona  
 WSO\* Weather Service Office  
 WSFO\*\* Weather Service Forecast Office



SOIL MOISTURE ABOUT MARCH 15, 1976

| DRAINAGE BASIN and/or STATION |           | Profile (Inches) |          | Date of Survey | Soil Moisture (Inches) |           |           |
|-------------------------------|-----------|------------------|----------|----------------|------------------------|-----------|-----------|
| Name                          | Elevation | Depth            | Capacity |                | This Year              | Last Year | Average † |
| <u>GILA RIVER</u>             |           |                  |          |                |                        |           |           |
| Frisco Divide                 | 8000      | 48               | 13.3     | 3/15           | 12.2                   | 14.3      | 10.9      |
| <u>SALT RIVER</u>             |           |                  |          |                |                        |           |           |
| Black River Divide            | 9100      | 48               | 16.8     | 3/15           | 17.6                   | 18.2      | 16.6      |
| Canyon Creek                  | 7500      | 48               | 18.3     | 3/14           | 18.3                   | 17.7      | 16.0      |
| Corduroy Creek                | 6000      | 36               | 13.5     | 3/15           | 14.6                   | 14.6      | 10.2      |
| McNary                        | 7200      | 48               | 16.3     | 3/15           | 17.9                   | 17.9      | 15.4      |
| <u>VERDE RIVER</u>            |           |                  |          |                |                        |           |           |
| Mormon Mountain               | 7500      | 48               | 16.1     | 3/15           | 17.0                   | 17.8      | 16.4      |
| Newman Park                   | 6750      | 48               | 17.7     | 3/15           | 19.5                   | 18.6      | 18.5      |
| † 1958-72 15-year Average     |           |                  |          |                |                        |           |           |



# The Following Organizations Cooperate in the Arizona Snow Survey Work

## FEDERAL

- Department of Agriculture
  - Soil Conservation Service
  - Forest Service
    - Apache-Sitgreaves Forest
    - Coconino Forest
    - Coronado Forest
    - Gila Forest
    - Kaibab Forest
    - Prescott Forest
    - Rocky Mountain Forest and Range Experiment Station
    - Tonto Forest
- Department of Commerce
  - NOAA, National Weather Service
- Department of Interior
  - Bureau of Reclamation
    - Region 111
  - Geological Survey
    - Arizona District
    - New Mexico District
  - Bureau of Indian Affairs
    - Fort Apache Reservation
    - San Carlos Irrigation Project
  - National Park Service
    - Grand Canyon National Park
- Gila Water Commissioner
  - Safford, Arizona

## STATE

- Arizona Game and Fish Department
- Arizona State Parks Board
- Arizona Water Commission
- University of Arizona
  - Arizona Agricultural Experiment Station
  - Water Resource Research Center
  - Department of Watershed Management

## MUNICIPAL

- City of Flagstaff

## IRRIGATION PROJECTS

- Salt River Valley Water User's Association
  - Phoenix, Arizona
- San Carlos Irrigation and Drainage District
  - Coolidge, Arizona
- Maricopa County Municipal Water Conservation District

## PRIVATE

- Southwest Forest Industries, Inc.
  - McNary, Arizona
- Fort Apache Indian Reservation
  - White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



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with the Snow Survey"*